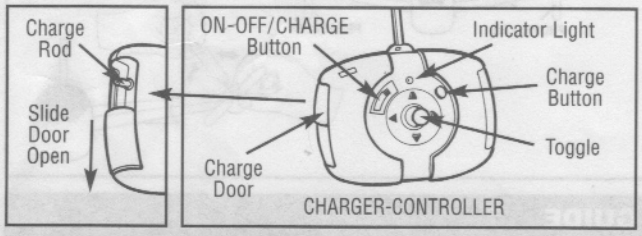
# INSTRUCTIONS

Experience radio-controlled (R/C) flight micro-sized with the AIR HOGS® R/C DEFENDER™! The Defender™ makes flying easy! Just choose the direction you want to fly, and press the controller toggle. The Defender™ has full-function radio control so you can control up, down, left or right. The Defender™ is powered by 2 motors and is made of damage-resistant, high-density foam. The Defender™ also features an integrated charger-controller unit for convenient portability and easy handling on the field. ***Take flight and master the skies!***

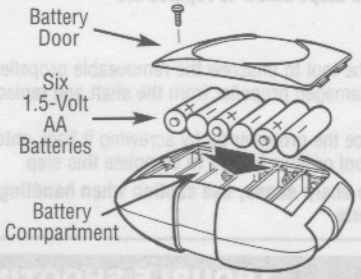
**PLEASE REFER TO INSTRUCTIONS BEFORE FLYING.**

***Check to make sure contents are complete:***

*1 Defender*
*1 Charger-Controller*
*2 Spare Propellers*
*1 Instruction Manual*




## BATTERY INSTALLATION



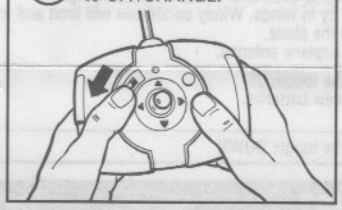

1. Use a Phillips screwdriver to unscrew and remove the battery door.
2. Install **six 1.5-Volt AA alkaline batteries (not included).** Be careful to align the positive (+) and negative (–) polarities with the corresponding markings inside the battery compartment.
3. Reinstall the battery door and tighten the screw.

## CHARGING

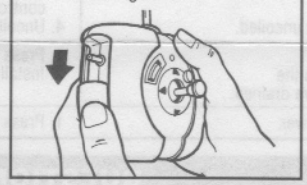
**Charge the plane's internal batteries for 2 minutes. Note: If you notice your flight time decreasing over time, you may increase the charge time up to a maximum of 4 minutes for better performance. Never charge more than 4 minutes or you may burn out the batteries.**

1. Push the plane's ON/OFF switch backwards to set the plane to OFF.

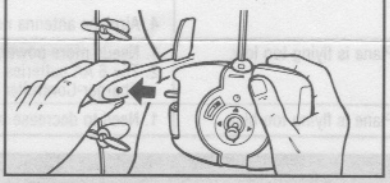
2. Set the Charger-Controller to OFF/CHARGE.



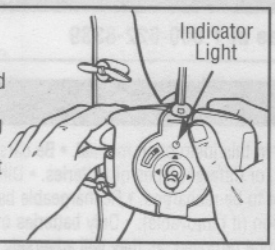
3. Slide the Charge Door open to reveal the Charge Rod.



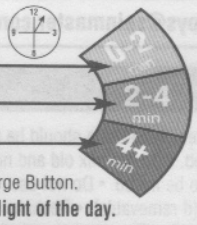
4. Push Charge Rod into the Plane's Charge Port, located in the bottom of the airplane.



5. Press and hold the Charge Button. During charging, the Indicator Light will turn red.

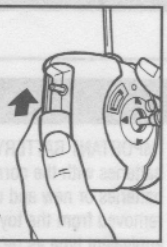



6. **BE SURE TO TIME YOUR CHARGE.**
   **0-2 minutes** = Not Enough Charge, Plane CANNOT Fly.
   **2-4 minutes** = Correct Amount of Charge, Plane CAN Fly.
   **Over 4 minutes** = Too Much Charge. Battery Burnout!!!




Note: Charging will NOT stop until you release the Charge Button.
**IMPORTANT: Charge for 4 minutes before your first flight of the day.**

7. Remove Defender™ gently from the Charge Rod and close the Charge Door.



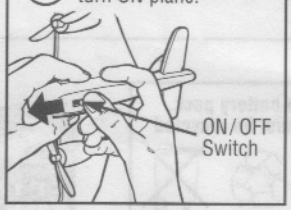
**Because the Defender's AA batteries are used for 2 functions, charging and controlling, they will need to be replaced after every 20 flights.**

## PRE-FLIGHT ENVIRONMENT CHECK

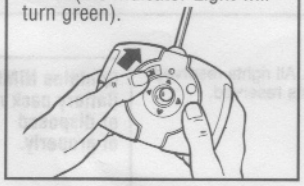
1. **Location** – Fly in a large, wide-open, grassy location that is free of buildings, trees, overhead wires, and other obstructions. Do not fly near people or animals.
2. **Weather** – Fly on mild, sunny days. Do not fly in electrical storms, rain, sleet, snow, or other adverse weather conditions. Do not fly if the temperature is below 45°F/7°C. In very cold temperatures, the plane will become fragile and the engine performance will decrease.
3. **Wind Conditions** – Do not fly in wind. Winds may overpower the plane and make it difficult to control. In windy conditions, it may appear as though you have no control over the plane.

## FLYING INSTRUCTIONS

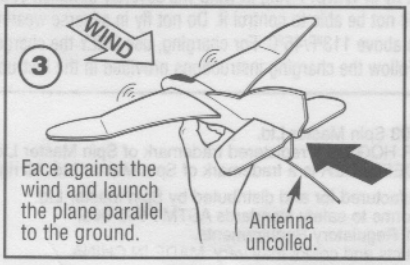
1. Push Switch forward to turn ON plane.



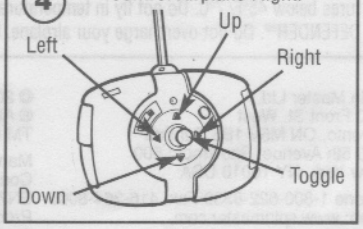

2. Turn ON the controller to start the plane's engines (the Indicator Light will turn green).



3. Face against the wind and launch the plane parallel to the ground.



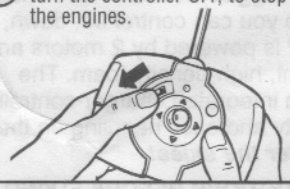

4. Control Airplane Flight.



## FLYING INSTRUCTIONS continued

5 To land, select a soft grassy area, and press the toggle DOWN.

6 Once the plane has landed, turn the controller OFF, to stop the engines.



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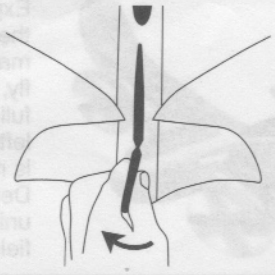
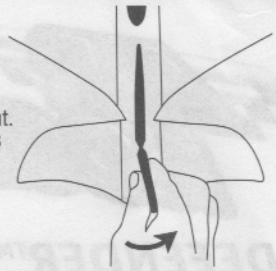
**USE IF:**
1. You are having trouble turning left.
2. The plane seems to constantly turn right.



8

**USE IF:**
1. You are having trouble turning right.
2. The plane seems to constantly turn left.

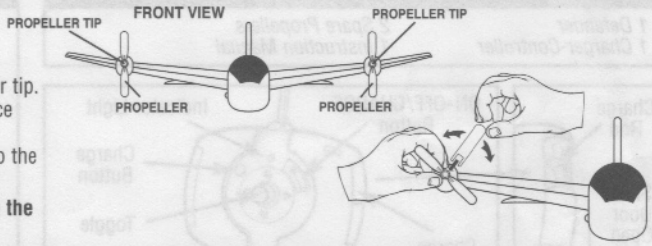


## CHANGING PROPELLERS

**In case of propeller damage, please use the steps below to replace the damaged propeller:**

1. With one hand, grab hold of the propeller.
2. While holding the propeller in place, use the tool to unscrew the removeable propeller tip.
3. After removing the propeller tip, pull the damaged propeller from the shaft and replace with a new propeller.
4. While holding the propeller in place, replace the propeller tip by screwing it back onto the shaft of the propeller. You may use your tool or your fingers to complete this step.

**CAUTION: the damaged propeller may have sharp edges, use caution when handling the damaged propeller, and dispose of it properly.**




## TROUBLE SHOOTING GUIDE

| PROBLEM | CAUSE | SOLUTION |
|---|---|---|
| Plane will not start (has no power). | 1. Plane not charged.<br>2. Battery power is drained.<br>3. Plane was not set to OFF during charging.<br>4. Charger-controller was not set to OFF/CHARGE. | 1. Charge plane for 2-4 minutes (see Charging).<br>2. You will need to replace the charger-controller's batteries after 20 flights.<br>3. The plane will not accept a charge in the ON position. Always set to OFF before charging.<br>4. The charger-controller will NOT charge in the ON position. Always set the charger-controller to OFF/CHARGE before attempting to charge. |
| Plane will not turn. | 1. Controller is not ON.<br>2. Controller antenna is not extended.<br>3. It is a windy day.<br>4. Airplane antenna not uncoiled. | 1. Set controller to ON.<br>2. Fully extend Controller antenna before flying.<br>3. Do not fly in winds. Windy conditions will limit and may prevent your ability to control the plane.<br>4. Uncoil airplane antenna. |
| Plane is flying too low. | 1. Needs more power.<br>2. The 6 AA batteries in the Charger-Controller are drained. | 1. Press the toggle UP.<br>2. Install new batteries. |
| Plane is flying too high. | 1. Need to decrease power. | 1. Press the toggle DOWN. |

## QUESTIONS?

**Email us at toys@spinmaster.com or call our friendly flight technicians toll free at 1-800-622-8339**

## BATTERIES

IMPORTANT BATTERY INFORMATION: • Battery installation should be performed by an adult. • Use only batteries recommended in this instruction manual. • Be careful to install the batteries with the correct polarity, as indicated. • Do not mix old and new batteries. • Do not mix alkaline, standard, rechargeable, or different types of batteries. • Different types of batteries or new and used batteries are not to be mixed. • Do not use rechargeable batteries. • Non-rechargeable batteries are not to be recharged. • Rechargeable batteries are to be removed from the toy before being charged (if removable). • Rechargeable batteries are only to be charged under adult supervision (if removable). • Only batteries of the same or equivalent type as recommended are to be used. • The supply terminals are not to be short-circuited. • Exhausted batteries are to be removed, as they will adversely affect the performance. Defender™ takes six 1.5-Volt AA Batteries (not included). CAUTION: Do not dispose of battery in fire. Battery may explode or leak.

## FCC REQUIREMENT

CAUTION: Changes or modifications to this product not expressly approved by the party responsible for compliance may void the user's authority to operate the equipment.

## IMPORTANT SAFETY INFORMATION

Keep plane from face, eyes and hair at all times. Keep fingers away from the moving propellers. Do not launch plane near other people or animals. Use caution, make sure people around you know that you are playing with the DEFENDER™. Recommended for use in large, wide-open, grassy areas. Do not fly near overhead wires, buildings, trees, or other obstructions. Be sure to fly on a clear sunny day. Do not fly in WIND. Flying in wind will severely diminish your ability to control the airplane. In some situations, where the wind is very strong, the wind may overpower the airplane and you will not be able to control it. Do not fly in adverse weather conditions such as electrical storms, rain, sleet or snow. Do not fly in temperatures below 45°F/ 7°C. Do not fly in temperatures above 113°F/45°C. For charging, use ONLY the charger provided in this package. Do not use any other source to charge the DEFENDER™. Do not overcharge your airplane. Follow the charging instructions provided in the instruction manual contained within this package.

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Manufactured for and distributed by Spin Master Ltd.
Conforms to safety standards ASTM F963-96a, EN71 Regulatory Requirements.
Products and colors may vary. MADE IN CHINA.
Asst. #44010. Item #44011, #44012.

**Contains NiMH battery pack. Battery pack must be recycled or disposed of properly.**

REV 4